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(12) **EUROPEAN PATENT APPLICATION**

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17.04.2000 GB 0009491
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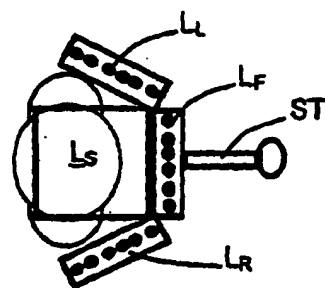
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(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
01302586.1 / 1 138 349

(54) **Therapeutic light source and method**

(57) A therapeutic light source comprises rigid arrays of LED's (L_F , L_L , L_R) movably connected together, and cooled by forced air convection. The output intensity of the arrays is at least $10\text{mW}/\text{cm}^2$ with a spatial intensity fluctuation of 10% or less in the treatment field. The emission spectra of the LED's may be substantially limited to the range 400 to 430 nm, or 590 to 640 nm. The light source may be used for cosmetic treatment, such as skin rejuvenation, wrinkle removal and/or biostimulation.

Fig. 20a



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PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 634 711 A (KAYSER ROY ET AL) 3 June 1997 (1997-06-03) * column 2, line 10 - line 27 * * column 3, line 38 - column 4, line 49 * * column 9, line 26 - line 30; claims 1,6,7,14,15,18; figures 1,7 *	5-7,9, 17-19	A61N5/06
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Y	* page 8, line 26 - page 9, line 7 * * page 10, line 8 - line 24 * * page 11, line 12 - line 25 * * page 16, line 28 - page 17, line 3 * * page 18, line 4 - page 19, line 32; claims 1-3; figures 5,10-12,14 *	1-4,8,9, 14-19	
Y	WO 93/09847 A (LARSEN ERIK) 27 May 1993 (1993-05-27) * page 4, line 16 - page 5, line 15 * * page 6, line 27 - page 7, line 7; claims 1-5,8; figures 1,2 *	1-4, 14-19	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
	-/--		A61N
INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p>			
Place of search		Date of completion of the search	Examiner
Munich		30 September 2004	Rick, K
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date O : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.92 (P04007)



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INCOMPLETE SEARCH
SHEET C

Application Number
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Claim(s) searched completely:
1-19

Claim(s) not searched:
20-23

Reason for the limitation of the search (non-patentable invention(s)):

Article 52 (4) EPC - Method for treatment of the human or animal body by
therapy



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PARTIAL EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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A	DE 41 13 803 A (IWG EASTMED MEDIZINTECHNIK GMB) 29 October 1992 (1992-10-29) * column 1, line 64 - column 2, line 7 * * column 2, line 57 - line 64; claim 3; figure 2 *	13	



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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LACK OF UNITY OF INVENTION
SHEET B

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-4 and 7-19 (if dependent on claim 1)

A light source for therapy comprising a first, second and third rigid array of light emitting diodes movably connected to the first array.

2. claims: 5,6 and 7-19 (if dependent on claim 5)

A therapeutic light source comprising an array of light emitting diodes with an output intensity of at least 10 mW/cm² and a spatial intensity fluctuation of 10% or less.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-09-2004

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82